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(FILE 'HOME' ENTERED AT 18:10:02 ON 07 JAN 2002)

FILE 'MEDLINE, BIOSIS' ENTERED AT 18:10:35 ON 07 JAN 2002

L1 433 S HEREGULIN/TI

L2 293 DUP REM L1 (140 DUPLICATES REMOVED)

L3 1761 S HER2

L4 31 S L2 AND L3

L4 ANSWER 24 OF 31 MEDLINE
TI Identification of **heregulin**, a specific activator of p185erbB2.
AU Holmes W E; Sliwkowski M X; Akita R W; Henzel W J; Lee J; Park J W;
Yansura D; Abadi N; Raab H; Lewis G D; +
SO SCIENCE, (1992 May 22) 256 (5060) 1205-10.
Journal code: UJ7; 0404511. ISSN: 0036-8075.
AB The proto-oncogene designated erbB2 or **HER2** encodes a 185-kilodalton transmembrane tyrosine kinase (p185erbB2), whose overexpression has been correlated with a poor prognosis in several human malignancies. A 45-kilodalton protein heregulin-alpha (HRG-alpha) that specifically induced phosphorylation of p185erbB2 was purified from the conditioned medium of a human breast tumor cell line. Several complementary DNA clones encoding related HRGs were identified, all of which are similar to proteins in the epidermal growth factor family. Scatchard analysis of the binding of recombinant HRG to a breast tumor cell line expressing p185erbB2 showed a single high affinity binding site [dissociation constant (K_d) = 105 +/- 15 picomolar]. Heregulin transcripts were identified in several normal tissues and cancer cell lines. The HRGs may represent the natural ligands for p185erbB2.

